

Curriculum Vitae

Dr. Ashraf Mohamed Ahmed Farah, BSc MSc PhD

Associate Professor, Engineering Surveying & Space Geodesy

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Date of Birth: 2/2/1973

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Qualifications:

- 1- B.Sc. Honors, Civil Engineering, Assiut University, Egypt, 1995.
- 2- M.Sc. Civil Engineering, Assiut University, Egypt, 1999.
- 3- Ph.D. Space Geodesy, Institute of Engineering Surveying and Space Geodesy (IESSG), The university of Nottingham, United Kingdom (UK), 2004.

Appointments Held:

- (January 1996 – June 1999) Demonstrator, civil Engineering Dept., Aswan Faculty of Engineering, South Valley University, Egypt.
- (June 1999 – December 2004) Assistant Lecturer, civil Engineering Dept., Aswan Faculty of Engineering, South Valley University, Egypt.
- (December 2004 – November 2011) Assistant Professor, civil Engineering Dept., Aswan Faculty of Engineering, South Valley University, Egypt.
- (November 2011 – present) Associate Professor, civil Engineering Dept., Aswan Faculty of Engineering, Aswan University, Egypt.
- (September 2009 – April 2012) Assistant Professor, civil Engineering Dept., Faculty of Engineering,

King Saud University, Riyadh, Kingdom of Saudi Arabia.

- (April 2012 – June 2015) Associate Professor, civil Engineering Dept., Faculty of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia.

-(July 2015 – July 2016) Head of Civil Engineering Dept., Faculty of Engineering, Aswan University, Aswan, Egypt.

Experiences :

- 1- Experience (1995-present) in executing and supervising Surveying projects for different organisations.
- 2- Theoretical and practical experience in working with different surveying instruments (old-fashioned & modern (GPS))
- 3- Theoretical and practical experience in working with different surveying softwares.
- 4- Principle Investigator for “*The preparation of strategic plan for " Kaomel Bahry" region in Sohag governorate*” project under authority of the architectural planning organisation, ministry of housing, Egyptian government. The project involved full supervision on the surveying works for three villages (*Kaomel Bahry & Hagarsa & Awlad Ghareeb*) (May 2005 to May 2006)
- 5- Full supervision on the surveying works for five villages for project “*The preparation of strategic plan for " Arabet Abo ELdahab" region in Sohag governorate*” project under authority of the architectural planning organisation, ministry of housing, Egyptian government. The project involved full supervision on the surveying works for five villages (*Arabet Abo ELdahab & AlArabah Alsharqua & Albaghyta & Bani Zar & Naga Tamam*) (May 2005 to May 2006)
- 6- Principle Investigator for “*Revising the coordinates of Granite mining fields in Wadi El-Alaki area, Aswan governorate*” project under authority of mining Department in Aswan governorate. The project as done using GPS technology. (October 2005 – April 2006)

Awards :

- 1- The Best Student Paper Prize for the paper "The Ionospheric Delay Effort for GPS Single-frequency Users-Analysis Study for Simulation Purposes", at the 15th International Conference of the Satellite Division of the American Institute of Navigation, Portland, Oregon, September 2002.
- 2- The MHESR partnership and ownership agreement post-doctoral grant in Institute of physical Geodesy, Darmstadt technical university, Darmstadt, Germany organized by the Egyptian higher education ministry (November 2006-January 2007).

Teaching Experiences:

Egypt Undergraduate level:

- 1- Engineering Surveying (1)
- 2- Engineering Surveying (2)
- 3- Geodesy & satellite positioning
- 4- Graduation project

Egypt Postgraduate level:

- 1- Engineering Mathematics
- 2- Advanced Geodesy
- 3- Satellite positioning
- 4- Computer applications in civil Engineering

King Saud University undergraduate level:

- 1- (SE211) Basics of Engineering surveying
- 2- (SE212) Spatial Measurements
- 3- (SE310) Engineering Surveying
- 4- (SE312) Introduction to Geomatic Engineering
- 5- (SE331) Observations Adjustment
- 6- (SE412) Astronomy & satellite positioning
- 7- (SE413) Satellite Positioning
- 8- (SE417) Hydrographic Surveying
- 9- (SE473) professional & legal Surveying
- 10- Graduation project (1)& (2)

Research Activities:

- 1- Supervising master thesis entitled “Accuracy Assessment Study of Using GPS for Surveying Applications in South Egypt” presented by Eng. Ashraf Talaat, Aswan faculty of Engineering, South Valley University, Egypt.(October 2005 to July 2009).
- 2- Supervising master thesis entitled “Evaluation of GPS Accuracy for Mapping and Engineering Applications” presented by Eng. Mohamed Abdelazeem, Aswan faculty of Engineering, South Valley University, Egypt.(October 2007 to February 2011)
- 3- Supervising master thesis entitled “Practical Aspects of Using High Resolution Satellite Images for Map Updating ” presented by Eng. Hekmat Mosah, Aswan faculty of Engineering, South Valley University, Egypt.(October 2007 to 2013)
- 4- Reviewer for the journal of Digital Earth.
- 5- Reviewer for the journal of Geomatics.
- 6- Reviewer for the journal of geodetic sciences.
- 7- Reviewer for the Arabian journal for Geosciences.

Professional development activities:

- 1- Participation in Workshop “Modern trends in teaching”. Organised by centre of skills development, South Valley University. May 2005.
- 2- Participation in Workshop “Skills of effective presentation”. Organised by centre of skills development, South Valley University. May 2005.
- 3- Participation in Workshop “Management of scientific research”. Organised by centre of skills development, South Valley University. July 2005.
- 4- Participation in Workshop “Using Technology in Teaching”. Organised by centre of skills development, South Valley University. March 2007.
- 5- Participation in Workshop “Profession ethics and manners”. Organised by centre of skills development, South Valley University. March 2007.

- 6- Participation in Workshop “Development of managerial skills”. Organised by centre of skills development, South Valley University. April 2007.
- 7- Participation in Workshop “ Skills of Effective Teaching”. Organised deanship of skills development, King Saud University. 1st term 2009-1010.
- 8- Participation in Workshop “ Course Design”. Organised deanship of skills development King Saud University 1st term 2009-1010
- 9- Participation in Workshop “Students Assessment Techniques”. Organised deanship of skills development, King Saud University. 1st term 2009-1010
- 10- Participation in Workshop “ Micro Teaching”. Organised deanship of skills development, King Saud University. 1st term 2009-1010.
- 11- Participation in Workshop “peer consultation training for improving teaching”. Organised deanship of skills development, King Saud University. 2nd term 2009-1010
- 12- Participation in Workshop “Development of Teaching Portfolio”. Organised deanship of skills development, King Saud University. 2nd 2009-1010
- 13- Participation in Workshop “improving your teaching through assessment”. Organised deanship of skills development, King Saud University. 2nd 2009-1010
- 14- A granted peer consultant from the deanship of skills development, King Saud University since 2nd term 2009-1010.
- 15- Reviewer for the journal of geodetic sciences since November 2012.
- 16- Granted the professional license for higher education from the deanship of skills development, King Saud University, October 2012.
- 17- Participation in the 2nd Annual Forum for University Teaching (Learning outcomes assessment) organised by King Saud University, Riyadh, KSA. (9-12 February, 2013).
- 18- Participation in the workshop titled (E-portfolio as a tool for students learning outcomes assessment) run by Prof. Mark Morton, Centre for Teaching Excellence, University of Waterloo, Canada. Organised deanship of skills development, King Saud University. (11-2-2013).
- 19- Participation in the workshop titled (Personal response systems ((clickers)) as a tool for leaning assessment) run by Prof. Mark Morton, University of Waterloo, Canada. Organised deanship of skills development, King Saud University. (12-2-2013).
- 20- Participation in the 3rd Annual Forum for University Teaching (Toward Distinguish University Teaching) organised by King Saud University, Riyadh, KSA. (8-12 September, 2013).
- 21- Participation in workshop “ High quality professional teaching: working towards excellence” given by professor Gavin Brown, Auckland university, New Zealand. Organised by King Saud University, Riyadh, KSA. (25 February, 2014).
- 22- Participation in the workshop titled (Search skills in electronic databases) Organised by deanship of skills development, King Saud University. (7-8-2014).
- 23- Participation in the workshop titled (Design of electronic course using Course Lab software) Organised by deanship of skills development, King Saud University. (8-8-2014).
- 24- Participation in the workshop titled (Using Google Apps in education) Organised by deanship of skills development, King Saud University. (9-8-2014).
- 25- Participation in the workshop titled (Meeting your class for the first time) Organised by deanship of skills development, King Saud University. (10-8-2014).
- 26- Participation in the workshop titled (Solving problems teaching strategy) Organised by deanship of skills development, King Saud University. (11-8-2014).
- 27- Participation in the webinar titled (Improving students’ employability skills through college teaching) Organised by deanship of skills development, King Saud University. (8-8-2014)
- 28- Participation in the webinar titled (Students motivation for better learning) Organised by deanship of skills development, King Saud University. (10-8-2014).
- 29- Participation in the workshop titled (Speed Reading) Organised by deanship of skills development, King Saud University. (18-8-2014).
- 30- Participation in the workshop titled (Writing proposals for research grants and projects) Organised by deanship of skills development, King Saud University. (15-10-2014).
- 31- Participation in the webinar titled (Developing Grading Rubrics) Organised by deanship of skills development, King Saud University. (Dr. Trevor M. Holmes, University of

- Waterloo, Canada (17-11-2014).
- 32- Participation in the webinar titled (Effective Course Design) Organised by deanship of skills development, King Saud University. (Prof. Bill Buskist, Auburn university, USA (25-11-2014).
 - 33- Participation in the webinar titled (The Flipped Classrooms: Why and How?) Organised by deanship of skills development, King Saud University. (Dr. Mark Mortton, University of Waterloo, Canada .(22-12-2014).
 - 34- Reviewer for the journal of Digital Earth since October 2014.
 - 35- Reviewer for the journal of Geomatics (Indian Society of Geomatics) since December 2014.
 - 36- Participation in the webinar titled (Mobile Learning to transform the delivery of Education: Are we ready?) Organised by deanship of skills development, King Saud University. (Prof. Mohamed Ally, Athabasca University, Canada .(29-12-2014).
 - 37- Participation in the webinar titled (Submitting manuscripts and getting them accepted in ISI journals) Organised by deanship of skills development, King Saud University. (Prof. John F. Leslie, Univ. Distinguished Prof. Kansas State University, USA) (29-12-2014).
 - 38- Participation in the workshop titled (The scholarship of teaching, learning and curriculum practice in higher education) by Prof. Harry Hubball , the university of British Colombia, Canada. Organised by deanship of skills development, King Saud University. (2-2-2015).
 - 39- Participation in the workshop titled (Educational Technology Innovation for higher education in the 21st century) by Prof. Olaf Zawacki Richter , the university of Oldenburg, Germany. Organised by deanship of skills development, King Saud University. (4-2-2015).
 - 40- Participation in the 2-days workshop titled (Introduction to Mobile Learning; instructional design and delivery methods) by Prof. Mohamed Ally , Athabasca university, Canada. Organised by deanship of skills development, King Saud University. (15&19-2-2015).
 - 41- Reviewer for the Arabian journal for Geosciences.

Publications:

- 1- **Ashraf Farah (2002).** "The Ionospheric Delay Effort for GPS Single-frequency Users-Analysis Study for Simulation Purposes", Proc ION GPS 2002, 15th International Technical Meeting of the Satellite Division of the Institute of Navigation, Portland,Oregon, USA, September 2002.
- 2- **Ashraf Farah (2002).** "Ionospheric-Delay Simulation Study for GPS Single-Frequency Users", the 2002 International Symposium on GPS/GNSS .Wuhan, China ,November 6 - 8, 2002.
- 3- **Ashraf Farah (2003).** "A New Ionospheric Delay model for GPS Single-Frequency Data Simulation". 1st International Conference of Civil Engineering Science ICCES1, Assiut University, Assiut, EGYPT, October 2003.
- 4- **Ashraf Farah; Moore, T.; Hill, C. (2003).** "High Spatial Variation Tropospheric Model for GPS-Data Simulation", Proc. ION GPS 2003, 16th International Technical Meeting of the Satellite Division of the Institute of Navigation, Portland, Oregon, USA, September 2003.
- 5- **Ashraf Farah (2003).** "EGNOS Tropospheric Model for GPS Data Simulation", the 2003 International Symposium on GPS/GNSS .Tokyo, Japan ,November, 2003.
- 6- **Ashraf Farah (2003).** "A Light on :GPS/GALILEO Data Simulation", the 2003 International Symposium on GPS/GNSS .Tokyo, Japan ,November, 2003.

- 7- **Ashraf Farah; Moore, T.; Hill, C. (2004).**"LEO Orbit Determination by GNSS", the 2004 European GNSS conference. Rotterdam, Netherlands, May, 2004.
- 8- **Ashraf Farah; Moore, T.; Hill, C. (2005).**"High Spatial Variation Tropospheric Model for GPS-Data Simulation", Journal of Navigation, Volume 58, Issue 03, September 2005, ISSN: 0373-4633, pp 459-470
- 9- **Ashraf Farah (2005).** "GPS/GALILEO Single-Frequency Ionospheric Modeling", the 2005 International Symposium on GPS/GNSS .Hong Kong, China ,December, 2005.
- 10- **Ashraf Farah (2005).** "Assessment Study of CODE-Ionospheric Products", the 2005 International Symposium on GPS/GNSS .Hong Kong, China ,December, 2005
- 11- **Ashraf Farah (2005).** "Assessment of Klobuchar Model Using GPS&CODE Coefficients", the 2005 International Symposium on GPS/GNSS .Hong Kong, China ,December, 2005
- 12- **Ashraf Farah (2007).** "The behaviour of GPS, Galileo and combined GPS/Galileo in different latitude geographical regions- DOP study". Al-Azhar University Engineering Journal, JAUES Vol. 2, No. 10, April 2007.
- 13- **Ashraf Farah (2007).** "The behaviour of GPS, Galileo and combined GPS/Galileo in different latitude geographical regions- Visible Satellites study". Al-Azhar University Engineering Journal, JAUES Vol. 2, No. 10, April 2007.
- 14- **Ashraf Farah (2007).** "Assessment Study of GPS Broadcast Ephemeris". Al-Azhar University Engineering Journal, JAUES Vol. 2, No. 10, April 2007.
- 15- **Ashraf Farah (2007).** "Assessment of EGNOS tropospheric correction model in south Egypt". Al-Azhar University Engineering Journal, JAUES Vol. 2, No. 10, April 2007.
- 16- **Ashraf Farah and Institute of physical Geodesy, Darmstadt University staff members (2007).**" Analysis, conception and documentation accompanying to the introduction of Glonass and Galileo in the Hessian SAPOS". Study Report for the hessian national office for Soil management and geo information (HLBG).PAROWN visiting grant.
- 17- **Ashraf Farah (2007).** "Code Single Point Positioning Using Nominal GNSS Constellations (Future Perception)" Journal of Artificial Satellites, Vol. 42, No. 3, 2007.
- 18- **Ashraf Farah (2007).** "Behaviour of GPS & Galileo Ionospheric Delay Correction in Egypt". journal of Scientific Researches, Faculty of Engineering, Ain-shams University, Egypt Vol. 42, No. 4, 2007.
- 19- **Ashraf Farah (2008).** "Ionospheric Delay Correction in Egypt". Al-Azhar University Engineering Journal, JAUES Vol. 3, No. 10, December 2008.
- 20- **Ashraf Farah (2008).** "Tropospheric Correction Estimation in Egypt". Al-Azhar University Engineering Journal, JAUES Vol. 3, No. 10, December 2008.
- 21- **Talaat, A.; Ashraf Farah; Farrag, A. (2008).** "Accuracy Assessment Study of Static-GPS in South Egypt". Al-Azhar University Engineering Journal, JAUES Vol. 3, No. 10, December 2008.
- 22- **Ashraf Farah (2008).** "Double-Difference Carrier-Phase Network Solution using Nominal GNSS Constellations (Future Perception)". Journal of Artificial Satellites, Vol. 43, No. 2, 2008.
- 23- **Ashraf Farah (2008).** "Comparison of GPS/Galileo Single Frequency Ionospheric Models with

Vertical Tec Maps”. journal of Artificial Satellites, Vol. 43, No. 2, 2008.

24- **Ashraf Farah (2008)**. “Accuracy Assessment of Digital Elevation Models Using GPS”. journal of Artificial Satellites, Vol. 43, No. 4, 2008.

25- **Ashraf Farah (2009)**. “Road Digital Profile using Kinematic GPS”. journal of Artificial Satellites, Vol. 44, No. 3, 2009.

26- **Abd-Elazeem, M.; Ashraf Farah; Farrag, A. (2010)**. ”Assessment Study of using online (CSRS) GPS-PPP Service for Mapping Applications in Egypt” 12th Al-Azhar University international Engineering conference, December 2010.

27- **Abd-Elazeem, M.; Ashraf Farah; Farrag, A. (2010)**. ” Cut-off Elevation Angle Effect on GPS Positioning Accuracy” 12th Al-Azhar University international Engineering conference, December 2010.

28- **Abd-Elazeem, M.; Ashraf Farah; Farrag, A. (2011)**. ”Assessment Study of using online (CSRS) GPS-PPP Service for Mapping Applications in Egypt” Journal of Geodetic Sciences ,Vol. 1 , No. 3, pp. 233-239, May 2011.

29- **Ashraf Farah (2011)**. “Assessment of UNB3M neutral atmosphere model and EGNOS model for nearequatorial- tropospheric delay correction” ,The Journal of Geomatics, Vol 5 No.2 October 2011.

30- **Ashraf Farah (2012)**. “Accuracy assessment of digital elevation models using GPS in kingdom of Saudi Arabia” ,The Journal of Geomatics, Vol 6 No.1, April 2012.

31- **Ashraf Farah (2012)**. “Klobuchar model for ionospheric delay correction in Saudi Arabia” ,The Journal of Geomatics, Vol 6 No.2, April 2012.

32- **Hekmat Mosah, Yehia Miky, Ashraf Farah and Farrag Ali Farrag (2012)**. “Practical Aspects of using High Resolution Satellite Images for Map Updating” .AL-Azhr international conference for Engineering sciences. Cairo, Egypt, December 2012.

33- **Ashraf Farah (2013)**. “Effect Analysis of GPS Observation Type and Duration on Convergence Behavior of Static PPP” ,The Journal of Geomatics, Vol 7 No.2, October 2013.

34- **Ashraf Farah (2014)**. “Accuracy of satellite image rectification using PPP-GPS versus DGPS” ,The Journal of Geomatics, Vol.8 No.1 , April 2014

35- **Ashraf Farah (2014)**. “Assessment Study of Static-PPP Convergence Behaviour Using GPS, GLONASS and Mixed GPS/GLONASS Observations” ,Journal of Artificial Satellites, Vol. 49 No. 1 , 2014.

36- **Ashraf Farah and Dafer Algarni (2014)**. “Positional Accuracy Assessment of GOOGLEEARTH in Riyadh” ,Journal of Artificial Satellites, Vol. 49 No. 2 , 2014.

37- **Ashraf Farah (2015)**. “Accuracy Assessment Study for Glonass-based Precise Point Positioning” ,The Journal of Geomatics, Vol. 9 No. 1 , 2015.

38- **Ashraf Farah (2015)**. “Accuracy Assessment Study for Kinematic GPS–PPP Using Single- and Dual-Frequency Observations with Various Software Packages” ,The Arabian Journal for Science and Engineering, Arab J Sci Eng (2015) 40:2013–2019.

39- **Ashraf Farah (2015)**. "Accuracy Assessment Study of UNB3M Neutral Atmospheric Model for

Global Tropospheric Delay Mitigation ". , Journal of Artificial Satellites, Vol. 50 No. 4 , 2015.

40- **Ashraf Farah (2016)**. " Accuracy Evaluation for Online Precise Point Positioning Services". The Journal of Geomatics, Vol. 10 No.1, 2016.

41- **Ashraf Farah (2016)** "NeQuick2 Model For Single-Frequency Ionospheric Delay Mitigation". The Journal of Geomatics, Vol. 10 No.2, 2016.

42- **Ashraf Farah (2017)** "GNSS-Precise Point Positioning for Precision Agriculture (Aswan, Egypt)". International Conference on "Advanced Technologies and their Applications in Agriculture". Cairo, Egypt. March, 2017.

43- **Ashraf Farah (2017)** "GoogleEarth for Precision Agriculture (Aswan, Egypt)". International Conference on "Advanced Technologies and their Applications in Agriculture". Cairo, Egypt. March, 2017 .

44- **Ashraf Farah (2017)** "GPS/GLONASS Combined Precise Point Positioning For Hydrography – Case Study (Aswan, Egypt)". Twentieth International Water Technology Conference, IWTC20. Hurghada, Egypt. May, 2017.

45- **Ashraf Farah (2017)** "GPS Static-PPP Positioning Accuracy Variation with Observation Recording Interval for Hydrographic Applications (Aswan, Egypt)". Twentieth International Water Technology Conference, IWTC20. Hurghada, Egypt. May, 2017.

46- **Ashraf Farah (2017)** "Variation of Static-PPP Positioning Accuracy using GPS-Single Frequency Observations (Aswan, Egypt)". Journal of Artificial Satellites, Vol. 52, No. 2. DOI: 10.1515/arsa-2017-0003. June 2017.

47- **Ashraf Farah (2017)** "GLONASS-based Single-Frequency Static-Precise Point Positioning". Journal of Multidisciplinary Engineering Science and Technology (JMEST), Vol. 4, No. 10 – October 2017.

48- **Ashraf Farah (2017)** "Feasibility Study of Kinematic PPP using Single & Dual Frequency Observations from GPS, GLONASS and combined GPS/GLONASS Constellations under Low-Visibility Conditions". Al Azhar's 14th International Conference on: Engineering, Architecture & Technology (AEIC) (12-14) December, 2017. Cairo, Egypt.

49- **Ashraf Farah (2017)** "Accuracy Assessment Study for Kinematic PPP using Low-Cost GPS Receiver". Al Azhar's 14th International Conference on: Engineering, Architecture & Technology (AEIC) (12-14) December, 2017. Cairo, Egypt .

50- **Ashraf Farah (2017)** . "Ionospheric Delay Mitigation Effect on GPS Positioning Accuracy During Solar Cycle (24) Peak Time". Al Azhar's 14th International Conference on: Engineering, Architecture & Technology (AEIC) December, 2017. Cairo, Egypt.

51- **Ashraf Farah (2018)**. "Kinematic-PPP using Single/Dual Frequency Observations From (GPS, GLONASS and GPS/GLONASS) Constellations for Hydrography". Journal of Artificial Satellites, Vol. 53, No. 1 – 2018. 10.2478/arsa-2018-0004

52- **Ashraf Farah (2018)**. "GoogleEarth for Precision Agriculture (Aswan, Egypt)" Agricultural Engineering International: CIGR Journal 19 (5), 1-5, 2018.

53- **Ashraf Farah (2018)**. "NeQuick2 Model Behaviour for Global Ionospheric Delay Mitigation During Solar Cycle-24 ". Journal of Artificial Satellites, Vol. 53, No. 4– 2018.

54- **Ashraf Farah (2019)**. “Single-Frequency Ionospheric-Delay Correction from BeiDou & GPS Systems for Northern Hemisphere ”. Journal of Artificial Satellites, Vol. 54, No. 1– 2019.